

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647594

Luminaire Tested: **GALN-SA8D-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40073.9 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

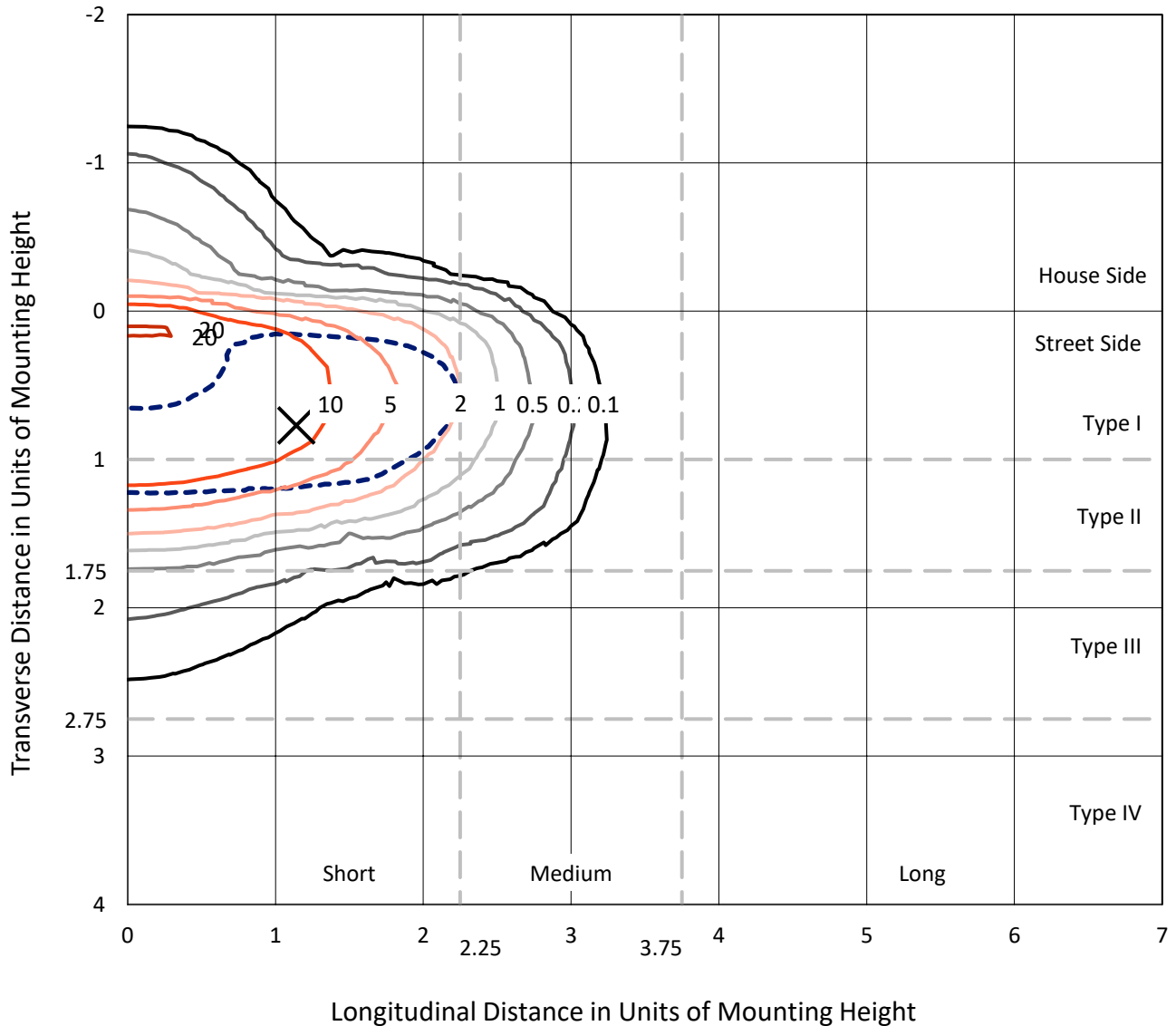
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647594
 CATALOG NUMBER: GALN-SA8D-835-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

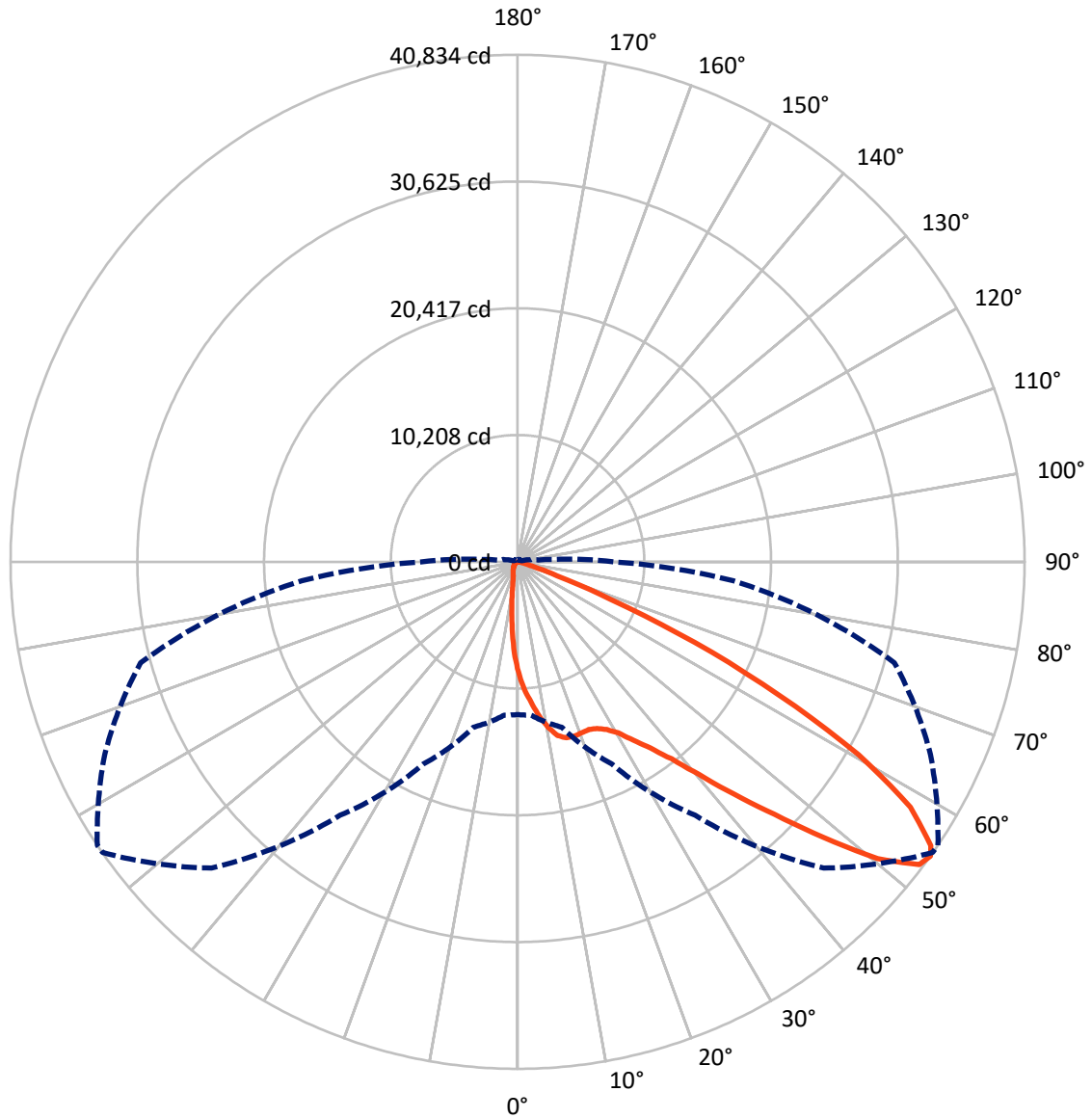
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

REPORT NUMBER: P647594
CATALOG NUMBER: GALN-SA8D-835-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P647594
 CATALOG NUMBER: GALN-SA8D-835-U-AFL-HSS

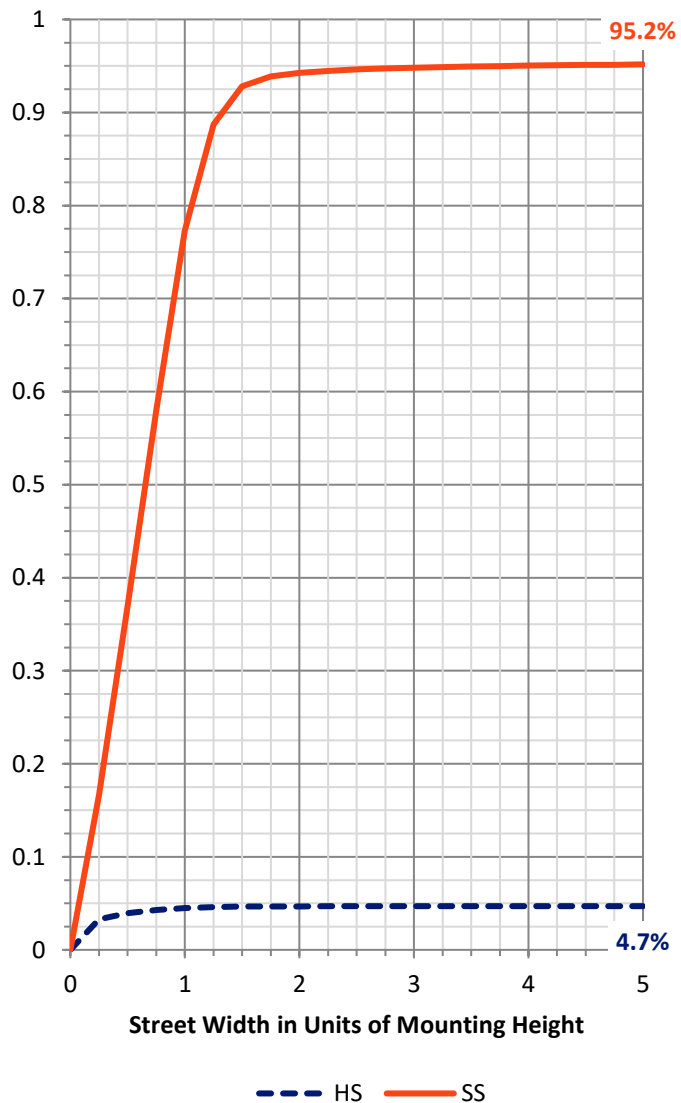
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1895.0	0.0	1895.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	38178.9	0.0	38178.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	40073.9	0.0	40073.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.7	2.0
10°-20°	2126.9	5.3
20°-30°	3683.5	9.2
30°-40°	6358.3	15.9
40°-50°	10822.1	27.0
50°-60°	10709.8	26.7
60°-70°	4888.2	12.2
70°-80°	627.8	1.6
80°-90°	70.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40073.9	100.0
0°-180°	40073.9	100.0

Coefficient of Utilization



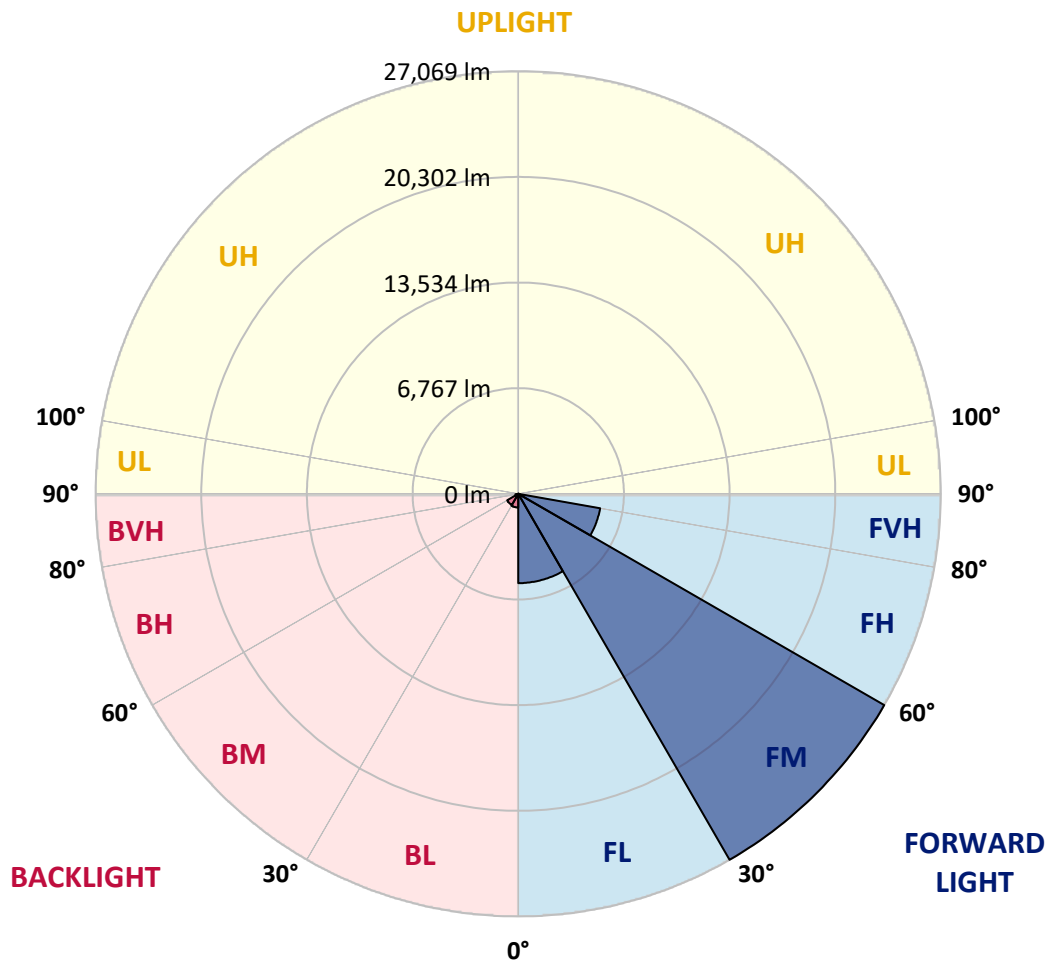
REPORT NUMBER: P647594
 CATALOG NUMBER: GALN-SA8D-835-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5720.7	14.3			
FM (30°-60°)	27068.9	67.5			
FH (60°-80°)	5326.2	13.3			G3/7500
FVH (80°-90°)	63.2	0.2			G1/100
BL (0°-30°)	876.4	2.2	B2/1000		
BM (30°-60°)	821.3	2.0	B1/1000		
BH (60°-80°)	189.8	0.5	B1/500		G1/500
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P647594

CATALOG NUMBER: GALN-SA8D-835-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3
2.5°	11315.0	11236.6	11128.4	11044.6	10847.2	10563.4	10263.3	10263.3	9973.9	9571.1	9160.2
5°	13050.7	12999.4	12894.0	12677.6	12456.0	12058.5	11455.6	11350.1	10833.7	10103.8	9335.9
7.5°	13756.4	13780.7	13786.1	13729.4	13624.0	13231.9	12634.4	12561.4	11736.8	10758.0	9565.7
10°	13080.5	13199.4	13315.7	13550.9	13883.5	13978.1	13640.2	13564.5	12753.3	11420.4	9814.4
12.5°	12074.7	12139.6	12204.5	12574.9	13242.7	14007.9	14362.0	14359.4	13672.6	12080.1	10130.8
15°	11607.0	11663.7	11669.1	11834.1	12412.7	13526.6	14670.3	14710.8	14570.2	12894.0	10471.5
17.5°	11704.3	11750.2	11712.4	11753.0	12055.8	12996.7	14635.1	14770.3	15297.5	13675.3	10779.6
20°	12339.7	12428.9	12282.9	12169.3	12261.2	12856.1	14516.2	14705.4	15811.2	14437.7	11060.8
22.5°	13480.7	13529.3	13345.5	13034.5	12872.3	13150.8	14483.7	14670.3	16249.2	15062.3	11223.1
25°	14748.7	14732.5	14529.7	14180.9	13840.2	13745.6	14697.3	14864.9	16611.5	15624.7	11271.8
27.5°	16016.7	16065.4	15724.7	15292.1	14883.9	14637.8	15175.9	15300.2	17019.8	16265.4	11331.2
30°	17490.2	17411.8	17076.5	16581.7	16114.1	15770.6	15946.4	15981.6	17582.2	17114.4	11488.0
32.5°	19407.1	19190.9	18815.0	17949.9	17614.6	17033.3	17076.5	17119.8	18266.2	17955.3	11677.3
35°	22008.1	21997.3	21261.9	20096.6	19280.0	18558.2	18368.9	18404.1	19301.7	19204.3	12096.3
37.5°	25139.0	25182.2	24344.1	23170.7	21667.4	20521.1	20131.7	20137.1	20875.2	20929.4	12734.4
40°	27688.6	27802.1	27302.0	26509.8	25025.5	23232.9	22578.6	22519.1	23086.9	23019.3	13645.6
42.5°	28786.3	28891.7	29078.3	29354.0	28537.5	27058.6	25514.8	25595.9	25768.9	25295.8	14667.5
45°	28248.2	28415.9	29148.6	30851.9	31619.7	31122.3	29281.1	28997.2	28264.4	27769.6	15695.0
47.5°	26006.9	26415.1	27639.9	30476.1	33163.6	34845.2	33531.3	33155.4	30762.7	29575.8	16349.3
50°	22321.8	22346.0	24052.1	27677.7	32363.3	37194.8	37870.7	37589.5	33090.6	30589.6	16679.1
52.5°	16181.6	16714.2	18277.0	22475.9	28897.2	36837.9	40636.6	40520.3	35491.4	31108.7	17155.0
54°	12301.8	12404.6	13794.3	17960.7	24914.6	34877.7	40806.9	40833.9	36683.8	31422.4	17436.2
55°	10084.8	9838.8	11298.8	15300.2	22197.3	33144.6	40250.0	40379.7	37219.1	31584.6	17644.4
57.5°	4780.1	4782.9	5899.4	8070.5	13902.4	25736.5	36846.0	37305.6	37278.6	31863.1	18285.1
60°	2419.8	2436.1	2682.1	3725.7	6867.4	17109.0	30465.3	31560.3	34410.0	31903.6	18496.0
62.5°	1692.5	1673.6	1633.0	1792.5	2890.3	8695.1	22681.3	23633.1	29235.1	30359.8	17825.5
65°	1449.2	1408.6	1295.1	1270.7	1460.0	3463.4	14126.8	15678.7	22321.8	26288.1	15916.7
67.5°	1238.3	1222.1	1119.3	1057.1	1032.8	1508.7	7289.2	8105.7	15257.0	18896.1	12055.8
70°	1051.7	1043.7	981.4	903.0	835.5	903.0	2703.7	3349.9	8503.1	10174.0	5688.6
72.5°	854.3	862.5	873.3	773.3	703.0	640.8	1154.5	1343.7	3558.0	3636.5	1989.9
75°	748.9	740.8	740.8	673.2	586.7	475.8	635.4	684.0	1089.6	1011.2	462.4
77.5°	527.2	508.3	594.8	554.3	489.4	337.9	362.3	383.9	451.6	386.6	216.3
80°	365.0	365.0	381.2	497.5	440.7	246.0	221.7	238.0	267.6	229.8	124.3
82.5°	205.5	210.9	248.8	265.0	256.8	164.9	146.0	148.7	178.4	156.8	78.4
85°	24.4	40.6	143.3	140.6	105.5	73.0	81.1	83.8	110.9	97.3	46.0
87.5°	2.7	5.4	29.8	37.8	27.0	29.8	29.8	29.8	37.8	43.2	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647594

CATALOG NUMBER: GALN-SA8D-835-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3	8903.3
2.5°	8938.4	8733.0	8243.6	7675.8	7313.5	6724.1	6226.7	5867.0	5777.8	5604.8	5656.2
5°	8927.6	8500.4	7502.8	6448.3	5323.6	4485.4	3860.9	3368.8	3152.5	3009.2	2909.2
7.5°	8933.0	8265.2	6664.6	4985.6	3641.9	2820.0	2241.3	1941.3	1741.2	1657.4	1668.2
10°	8949.2	8000.2	5691.3	3693.3	2457.7	1822.3	1468.1	1324.8	1257.2	1246.4	1243.7
12.5°	8987.1	7711.0	4761.2	2741.5	1719.5	1324.8	1189.6	1141.0	1119.3	1119.3	1111.2
15°	9027.7	7391.9	3988.0	2038.6	1324.8	1138.2	1076.1	1051.7	1038.3	1038.3	1035.5
17.5°	9027.7	7024.2	3266.0	1581.7	1141.0	1046.3	997.7	965.2	954.4	954.4	951.7
20°	8970.8	6597.0	2625.3	1273.5	1035.5	959.8	911.2	876.0	862.5	857.1	854.3
22.5°	8773.5	6026.5	2090.0	1095.0	949.0	884.1	821.9	781.4	770.6	765.1	767.9
25°	8422.0	5383.0	1654.6	962.5	870.6	792.2	738.1	708.4	697.6	697.6	700.2
27.5°	8059.7	4709.8	1311.3	862.5	776.0	705.6	662.4	643.5	640.8	648.9	651.6
30°	7724.5	4033.9	1062.5	781.4	692.2	632.7	602.9	597.5	597.5	600.2	602.9
32.5°	7351.4	3441.8	889.5	711.0	624.5	573.2	556.9	556.9	562.4	562.4	567.8
35°	7116.1	2933.5	781.4	643.5	573.2	529.9	519.1	521.8	529.9	540.7	546.1
37.5°	6989.1	2528.0	711.0	589.4	524.5	494.8	484.0	489.4	508.3	527.2	529.9
40°	6999.9	2222.5	654.3	543.5	486.6	454.2	446.1	462.4	481.2	500.2	502.9
42.5°	7118.8	1995.3	600.2	489.4	454.2	408.3	405.5	421.8	429.9	448.8	451.6
45°	7259.4	1830.4	543.5	432.6	394.7	354.2	356.9	370.4	381.2	411.0	416.4
47.5°	7302.6	1716.9	478.6	367.7	324.5	310.9	313.6	321.7	343.3	370.4	373.1
50°	7351.4	1646.6	416.4	310.9	275.8	273.1	275.8	281.2	294.7	305.5	302.8
52.5°	7559.6	1643.8	365.0	270.4	235.2	240.6	243.4	240.6	229.8	213.6	208.2
54°	7754.2	1652.0	340.7	251.4	216.3	224.4	221.7	208.2	181.2	164.9	156.8
55°	7911.0	1660.0	327.1	238.0	205.5	208.2	210.9	183.8	148.7	132.5	127.1
57.5°	8219.2	1641.2	294.7	208.2	181.2	170.3	167.6	121.7	81.1	70.3	64.9
60°	8065.1	1481.6	267.6	178.4	154.1	137.9	113.5	67.6	40.6	29.8	29.8
62.5°	7459.5	1257.2	238.0	146.0	127.1	105.5	59.5	37.8	18.9	10.8	8.1
65°	6672.7	1057.1	213.6	116.3	100.1	67.6	32.4	24.4	8.1	0.0	0.0
67.5°	4961.3	784.1	181.2	91.9	75.7	43.2	21.6	13.5	2.7	0.0	0.0
70°	2298.1	478.6	154.1	70.3	54.1	32.4	16.2	8.1	0.0	0.0	0.0
72.5°	659.7	300.1	127.1	51.4	37.8	27.0	13.5	5.4	2.7	0.0	0.0
75°	229.8	240.6	94.7	37.8	29.8	18.9	10.8	5.4	2.7	0.0	0.0
77.5°	137.9	194.7	59.5	32.4	24.4	16.2	10.8	5.4	2.7	2.7	0.0
80°	78.4	129.7	37.8	27.0	21.6	13.5	8.1	5.4	2.7	2.7	0.0
82.5°	43.2	62.2	29.8	24.4	18.9	13.5	8.1	5.4	2.7	2.7	2.7
85°	35.2	32.4	24.4	21.6	16.2	10.8	8.1	2.7	0.0	0.0	0.0
87.5°	27.0	21.6	21.6	21.6	16.2	10.8	8.1	2.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)